FILO475SID

ECOLOGY AND ENVIRONMENT, INC. FIELD INVESTIGATION TEAM SITE SAFETY PLAN



A. GENERAL INFORMATION

SITE: Kankakee Valley Hirport	TDD NO.: F05-8702-169
LOCATION: Kankakee, Illinois	WSTS/ACCOUNT NO: ILO4755
PLAN PREPARED BY: D. Smith	DATE: 2-25-87
APPROVED BY: Michael Ohelway	DATE: 2/27/87
OBJECTIVE(S): (including description of work to be perfor	
interview with site representat	
samples will be taken.	
PROPOSED DATE OF INVESTIGATION: March 4, 198	7
BACKGROUND REVIEW: Complete: Prelimina	ry:
DOCUMENTATION/SUMMARY: Overall Hazard: Serious:	
Low:	Unknown:
B. SITE/WASTE CHARACTERISTI	roc .
b. STIE WASTE CHARLERISTI	ω
WASTE TYPE(S): Liquid Solid	Sludge Gas
CHARACTERISTIC(S): Corrosive Ignitable R	Radioactive Volatile
Toxic Keactive Unknown KOther (Name	e) Carcinogen
FACILITY DESCRIPTION: The site is comprised of	
resticial writer were disposed of dire	ctly or indirectly into th
pesticide waster were disposed of dire	two underground tanks.
Principal Disposal Method (type and location): Pestic	
house foundation and into a underground used to catch washwater from engine parts clear	tanks. 19150 third tank
Unusual Features (dike integrity, power lines, terrain,	
NONE	
Status: (active, inactive, unknown) Businesses	on parcell and
	till be in use for perating
at site. At least one of the tanks may st waste storage.	This DE IN MOSE TOU DESTICIAL

concerned that his well may be contaminated (1982). IEPA sampled his well and found no contaminants (12/84). TEPA sampled soils and soil waters (12/84). Company is a crop dusting operation. C. HAZARD EVALUATION (Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.): PESTICIDES: Treflan Atrazine, Alachlor, Dacthal Naphthalene Watch for spenings in asphalt/ground. avoid all router of exposure. Xylone, Benzene There is no record of any cyanide or radioactive materials handled or disposed on size. The inspection will be carried out out-q-doors, where 02 deficient conditions are not expected. Company corrently not operating due to off-sensor for coop dusting. D. SITE SAFETY WORK PLAN METER ESTABLISHMENT: Map/Sketch Attached YES Site Secured? unknown Perimeter Identified? No Zone(s) of Contamination Identified? No Assume entire site contaminated ONAL PROTECTION Level of Protection: A B C D W Modifications: Level D with possible upgrade to level C should surveillance equipment warrant. Hand readings 1-5 ppm above background—upgrade to level C. Readings 25 ppm, abandon site, contact Surveillance Equipment and Materials: Action Levels See below reidusty con	and found no contamine Company is a crop	may be contaminated (186), 15 FT sampled his well
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It dusty/ windy conditions exist avoid waste storage areas	ONAL PROTECTION Level of Protection: Modifications: Level Surveillance equip background - upgr Surveillance Equipment Explosimeter: 7 HCN Tubes / rad mi hnu: 0-1 1-5	A B C D X D with possible upgracle to level C should oment warrant. HNU readings 1-5 ppm above racle to level C. Readings > 5 ppm, abandon site, contact and Materials: ACTION LEVELS See below re: dusty con 30 % LEL = abandon site and contact RSC since there is no record of eyanides, instable in / Oz metar isotopes, and Oz deficient areas, detection instruments are not warranted. ppm above background = Level C ppm above background = Level C ppm above background = abandon site i contact RSC
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History: (Worker or non-worker injury; complaints from public; previous agency action): No history of injuries. Nearby resident complained

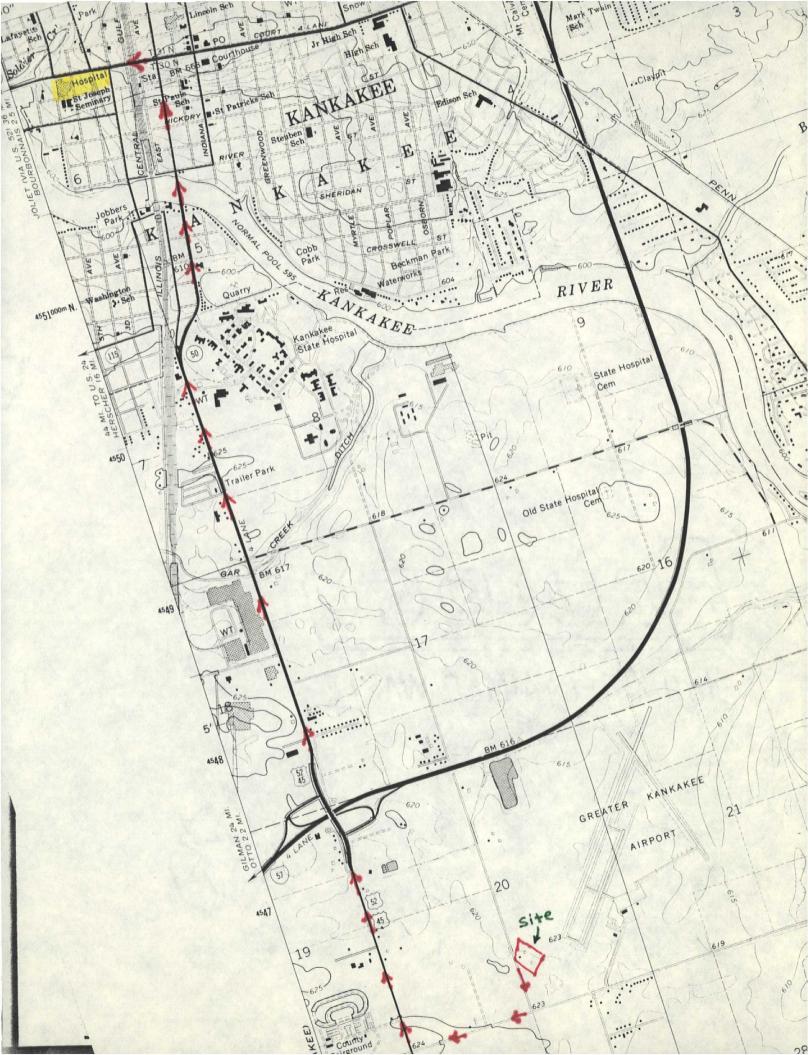
that wastes from one underground tank regularly overflowed. Resident claimed

DECO	HTAMINATION PROCEDURES: All suspect contaminated material will be
	washed and rinsed with Alconox. All wash and rinse water
	will be left on-site. Prior permission required.
	Special Equipment, Facilities, or Procedures: NoNE
•	•
	•
ITE	ENTRY PROCEDURES: Enter site upwind if possible. Get background
	readings with site entry instruments before entering.
	Observe buddy system at all times. Entry into buildings
	is prohibited. Observe site southly rules at a minimum. If it reune check qui
	Team Member Responsibility
-	Phil Smith Team Leader
	Cudy Punh SSO.
	Bonny Custillo Team member
	-
	· · ·
ORK	LIMITATIONS (Time of day, etc.): Work will be conducted outside,
·	during daylight hours only: Monitor for cold / heat stress.
INVE	STIGATION-DERIVED MATERIAL DISPOSAL: All investigation derived materials
	will be double - bagged, labeled "potentially hazardous"
	and left on-site. Prior permission will be obtained.

E. EMERGENCY INFORMATION*

LOCAL RESOURCES

Ambulance 933-9571 Henson Ambulance Co.	
Hospital Emergency Room 937-2100 St. Mary's Hospital 500	W. Count St. Kankakee
Poison Control Center (Chicago) 1-800-942-5969 (Ruch-P.	- St. Lukus Hospital)
Police 933-3321 (Kankaker Police Dept.)	
Fire Department 933-3311 (Kankakee Fine Dept.)	
Airport N/A	
Explosives Unit N/A	
EPA Contact Don Josif (312) 886-0393	
SITE RESOURCES	
Water Supply To be determined prior to site entry.	
Telephone To be determined prior to site entry.	
Radio N/A	
Other N/A	
	•
EMERGENCY CONTACTS	
1. Mr. Raymond Harbison (University of Arkansas) (5	01) 661_5766 on 661_5767
MED-TOX(5	
2. Regional Safety Coordinator - Paul Moss	12)-541_6635 (Home)
3. Regional Project Manager- Rene Van Someren	
4. FIT Office	
5. E & E 24 Hour Call Line	
	Forwarding)
6. Regional Health Maintenance Program Contact PM	
	00 a.m 5:00 p.m.
	16) 631-9530 (Response Cente
•	16) 632-4491 (office)
8. Ecology and Environment, Inc. NPMO (7	03) 522-6065
F. EMERGENCY ROUTES	
(Give road or other directions; attach map)
Hospital: Take county fair road west to U.S. 45 / 5	·
into Karkakee to Court Street West (left), to
500 W. Court St. (See map).	



GREATER KANKAKES AIRPORT 12/12/84 RUSK SPRAYING and RUSSELL AVIATION TILE DISCHARGE > F RUSSELL WELL-CLD FARM FOUNDATION 83H Ø3 B 230 WELL 1271LE BURIED CONCRETE LINE TANK -OPENING IN ASPITALT RECEIVED -JAN 07 1985 ידפת.חוףכ

Medtox Hotline

1. Twenty-four hour answering service - (501) 370-8263

What to Report:

- * State: "This is an emergency."
- * Your name, region, and site
- * Telephone number to reach you
- * Name of person injured or exposed
- Nature of emergency
- Action taken
- 2. One of three toxicologists (Drs. Raymond Harbison, Richard Freeman, or Robert James) will contact you. Repeat the information given to the answering service.
- 3. If a toxicologist does not return your call within 15 minutes, call the following persons in order until contact is made:
 - E & E Corporate Headquarters (EST 0830-1700) (716) 632-4491
 - a. Twenty-four hour line (716) 631-9530
 - b. Corporate Safety Director Paul Jonmaire (Office) (716) 632-4491
 - c. Assistant Corporate Safety Officer Steve Sherman (home (716) 688-0084)

Regional Office

Office Phone Number: (312) 663-9415

	Name	Home	
Team Leader	Rene' Van Someren	(312)763-7335	
Regional Safety Coordinator	Paul Moss	(312)541-6635	

THE SIGMA-ALDRICH LIBRARY OF CHEMICAL SAFETY DATA

Explanation of Codes

PROCEDURES FOR SPILLS OR LEAKS

- Absorb on sand or vermiculite and place in closed container for disposal.
- 2 Cover with dry lime, sand, or soda ash. Place in covered containers using nonsparking tools and transport outdoors.
- 3 Shut off all sources of ignition.
- 4 Evacuate area.
- 5 Cover with an activated carbon adsorbent, take up and place in closed container. Transport outdoors.
- 6 Ventilate area and wash spill site after material pickup is complete.
- 7 Sweep up, place in a bag and hold for waste disposal.
- 8 Avoid raising dust.
- 9 Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- 10 Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.
- 11 Cover with dry lime or soda ash, pick up, keep in a closed container and hold for waste disposal.
- 12 Carefully sweep up and remove.
- 13 Flush spill area with copious amounts of water.
- 14 Mix with solid sodium bicarbonate.
- 15 Place in appropriate container.
- 16 Wear protective equipment.
- 17 Wash spill site with soap solution.
- 18 Please contact the Technical Services Department. Be sure to mention the name and catalog number of the material.

FIRE-EXTINGUISHING MEDIA

- 1 Carbon dioxide.
- 2 Dry chémical powder.
- 3 Water spray.
- 4 Alcohol or polymer foam.
- 5 Class D fire-extinguishing material only.
- 6 Water may be effective for cooling, but may not effect extinguishment.
- 7 Carbon dioxide, dry chemical powder, alcohol or polymer foam.
- 8 Foam and water spray are effective but may cause frothing.
- 9 Do not use dry chemical powder extinguisher on this material.
- 10 Do not use carbon dioxide extinguisher on this material.
- 11 Noncombustible.
- 12 Do not use water.
- 13 Use extinguishing media appropriate to surrounding fire conditions.



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WASTE-DISPOSAL METHODS

The disposal methods outlined below are intended only as guides. We do not assume responsibility for their use. Careful consideration must be given to the chemical and physical properties of the substance, in addition, local laws and regulations may preclude the use of these methods which are primarily designed for small quantities. Observe all federal, state, and local laws.

The disposal of some chemicals may require deactivation or modification of the material by chemical means. Chemical waste-disposal reactions must be handled with the same care and consideration used with synthetic procedures. Appropriate consideration must be given to reaction conditions, i.e., stoichlometry, order and rate of addition, heat of reaction, evolution of gaseous products, pH, efficiency of stirring, rate of reaction, atmospheric sensitivity, etc.

Chemical waste-disposal reactions should be carried out in a chemical fume hood and in appropriate laboratory glassware. Because these reactions are often vigorous, protective safety equipment such as safety goggles, respirator, gloves, face and/or safety shield and other protective equipment must be used.

Initial reactions in a disposal sequence should be carried out on a small scale (5-10g). The reactant concentrations should not exceed 10% of the reaction volume and the final reaction volume should not exceed 50% of the working capacity of the reaction vessel, regardless of the reaction scale. Larger quantities of the material should be handled in several small-size reactions. To ensure completion of reaction, the waste disposal procedure should be run for at least an additional 4 to 8 hours after all materials have been mixed.

All reactions should be run by technically qualified persons familiar with the potential hazards of the chemical reactions.

- A Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an atterburner and scrubber.
- The material should be ignited in the presence of sodium carbonate and slaked time (calcium hydroxide). The substance should be mixed with vermiculte and then with the dry caustics, wrapped in paper and burned in a chemical incinerator equipped with an afterburner and scrubber.
- C This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.
- Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.
- E To a solution of the product in water, add an excess of dilute sulfuric acid. Let stand overnight. Remove any insolubles and bury in a landfill site approved for hazardous-waste discosal.
- F Cautiously dissolve the material in water. Neutralize immediately with sodium carbonate or, if the material does not dissolve completely, add a little hydrochloric acid followed by sodium carbonate. Add calcium chloride in excess of the amount needed to precipitate the fluoride and/or carbonate.

- Separate the insolubles and bury in a landfill site approved for hazardous-waste disposal.
- G Under an inert atmosphere, cautiously add the material to dry butanol in an appropriate solvent. The chemical reaction may be vigorous and/or exothermic. Provisions must be made for venting of large volumes of highly flammable hydrogen and/or hydrocarbon gases. Neutralize the solution with aqueous acid. Filter off any solid residues for disposal as hazardous waste. Burn the liquid portion in a chemical incinerator equipped with an after-burner and scrubber.
- Neutralize the solution and add filtering agent (10g per 100ml). Evaporate the liquid and bag the residual solid for burial in a landfill site approved for hazardous-waste disposal.
- Dissolve the solid in (or dilute the solution with) a large volume of water. Carefully add a dilute solution of acetic acid or acetone to the mixture in a well ventilated area. Provisions should be made to vent safely the hydrogen gas given off during the decomposition. Check acidity of the solution and adjust to pH 1 if necessary. Let stand overnight. Neutralize the solution (pH 7). Evaporate the solution and bury the residue in a landfill site approved for hazardous-waste disposal.
- Cautiously acidify a 3% solution or a suspension of the material to pH 2 with sulfuric acid. Gradually add a 50% excess of aqueous sodium bisulfite with stirring at room temperature. An increase in temperature indicates that a reaction is taking place. If no reaction is observed on the addition of 10% of the sodium bisulfite solution, initiate it by cautiously adding more acid. If manganese, chromium, or molybdenum is present, adjust the pH of the solution to 7 and treat with sulfide to precipitate for burial as hazardous waste. Destroy excess sulfide, neutralize and flush solution down the drain.
- K Please contact the Technical Services Department, Be sure to mention name, catalog number and quantity of the material.
- L. The material should be dissolved in 1) water; 2) acid solution or 3) oxidized to a water-soluble state. Precipitate the material as the sulfide, adjusting the pH of the solution to 7 to complete precipitation. Filter the insolubles and dispose of them in a hazardous-waste site. Destroy any excess sulfide with sodium hypochlorite. Neutralize the solution before flushing down the drain.
- M A sturry of the arenediazonium salt with water can be disposed of by adding it gradually to a stirred solution of 5-10% excess 2-naphthol in 3% aqueous sodium hydroxide at 0-20°C. After 12 hours, the resulting azo dye is filtered and either incinerated or buried in a landfill site approved for hazardous-waste disposal. Neutralize the remaining solution before disposal.
- N For small quantities: cautiously add to a large stirred excess of water. Adust the pH to neutral, separate any insoluble solids or liquids and package them for hazardous-waste disposal. Flush the aqueous solu-

- tion down the drain with plenty of water. The hydrolysis and neutralization reactions may generate heat and furnes which can be controlled by the rate of addition.
- Bury in a landfill site approved for the disposal of chemical and hazardous waste.
- P Material in the elemental state should be recovered for reuse or recycling.
- Cautiously make a 5% solution of the material in water or dilute acid. There may be a vigorous, exothermic reaction and fumes may be generated due to the hydrolysis of the material. Control any reaction by cooling and by the rate of addition of the material. Gradually add dilute ammonium hydroxide to pH 10. Filter off any precipitate for disposal in a chemical landfill. If there is no precipitation, gradually adjust the pH from 10 to 6, stopping when precipitation occurs.
- R Catalysts and expensive metals should be recovered for reuse or recycling.
- S Treat a dilute basic solution (pH 10-11) of the material with a 50% excess of commercial laundry bleach. Control the temperature by the addition rate of bleach and adjust pH if necessary. Let stand overnight. Cautiously adjust solution to pH 7. Vigorous evolution of gas may occur. Filter any solids for burial in a chemical landfill. Precipitate any heavy metals by addition of sulfide and isolate for burial. Additional equivalents of hypochlorite may be needed if the metal can be oxidized to a higher valence state. For metal carbonyls, the reaction should be carried out under nitrogen.
- T Cautiously make a 5% solution of the product in water, vent because of possible vigorous evolution of flammable hydrogen gas. Acidify the solution to pH i by adding 1M sulfuric acid dropwise. Acidification will cause vigorous evolution of hydrogen gas. Allow the solution to stand overnight. Evaporate the solution to dryness and bury the residue in a landfill site approved for hazardous-waste disposal.
- U Take the material (or a solution) and make a 5% solution in tetrahydrofuran. Cautiously add the solution dropwise to an ice-cooled, stirred basic solution of commercial bleach. Oxidation may release flammable hydrocarbon gases which must be vented. Let stand overnight. Adjust the pH to 7 and destroy excess hypochlorite with sodium bisulfite before disposal of the solution.
- V Under an inert atmosphere cautiously add dry butanol or a mixture of dry butanol in an appropriate solvent, to a solution of the material in tetrahydrofuran. The chemical reaction may be vigorous and/or exothermic. Provisions must be made for the venting of a large volume of flammable hydrogen gas. When gas evolution ceases, cautiously add a basic hypochlorite solution dropwise to the reaction solution. Let stand overnight. Neutralize the solution and treat with sodium bisulfite to destroy any excess hypochlorite. Filter any solids for burial in a landfill site approved for hazardous-waste disposal.

Ecology and Environment, Inc. Hazard Evaluation of Chemicals Region V - Chicago

Chemical Name Benzene	Date
DOT Classification	Job Number
CAS Number	
NIOSH/OSHA Pocket Guide Men	e; also include MSDS if approprate.) rck Index (Hazardline) Chris(vol.III) Hazardous Safety Manual (SAX) (Aldrich)
Chemical Formula C6H6 Physical State liquid Flash Point 12°F Flam Specific Gravity/Density 0 Solubility-water: slight	ms:benzol,benzole,cyclohexatriene) MW78Ionization Potential9.245evBoiling Point_176°FFreezing Point_42°F mable Limits1.3-7.1% Vapor Pressure75mm
STEL none Ceiling Toxicity Data: (Indicate du: Human; IHL Tclo 100/CNS Rat/Mouse; IHL Tclo 50/24H Aquatic: Tlm96:100-10ppm Carcinogen human-sus Mutag Route(s) of exposure - (circ	CGIH) 10 ppm PEL (OSHA) 10 ppm Limits > 25 < 50 ppm / 10 min IDLH 2000 ppm ration of study) S Dermal Oral Tdlo 130 mg/kg: CNS Dermal Oral LD50 3800 mg/kg Other: IHL: Man TC 2100 mg/m3/4Y; carc. gen exper. Reproductive Toxin exper. cle all that apply): Inhalation Ingestion Dermal Absorption Other
Respirators: 10 ppm use SCB	viton; good-neoprene, saranax; poor-butyl, natural
Disposal D Fire	se numbered codes; see attached sheets for xplanation.) 6.7 Leaks&Spills 3.4.5.6.9 ic fumes of carbon dioxide.carbon monoxide
IHL: Remove to fresh air, give	give water or milk, medical attent. immed. ve artificial resp. if needed, medical attent. rinse/wash skin with soap & water thoroughly.
IHL, initial excitation followers	ffects: skin irritant, CNS depressant, mostly owed by headache, dizziness, vomiting, delirium, mors, blurred vision, shallow resp., convulsions.

chronic(long term) exposure effects: anorexia, drowsiness, anemia, bleeding under skin, reduced blood clotting; liver, kidney, bone marrow damage, leukemia.

reproductive effects: None reported in humans.

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INSECTICIDE Ecology and Environment, Inc. Hazard Evaluation of Chemicals Region V - Chicago

Chemical Name	Naphthalene	Date Feb /	87
DOT Classificati	on	_ Job Number	P05-8702-169
CAS Number	91-20-3		
NIOSH/OSHA Pocke	LTED (circle; also in t Guide) Merck Index t) Toxic & Hazardous Sittig	Hazardline	Chris(vol.III)
Chemical Formula Physical State s Flash Point 174°	IES: (Synonyms: Napthal C10H8 MW olid flakes Boiling F Flammable Limi /Density .9625@212°F0	Ionizatio Point <u>424°F</u> ts <u>0.9-5.9%</u> V	n Potential <u>8.12ev</u> Freezing Point <u>177° F</u> apor Pressure <u>.05mm</u>
Solubility-water	: insoluble Sol	ubility-other	:
TOXICOLOGICAL PR Exposure Limits: STEL 15ppm Toxicity Data: (Human; IHL Rat/Mouse; IHL Aquatic: Tlm 9 Carcinogen N/ Route(s) of expo Dermal Contact (HANDLING RECOMME Respirators: <500 Protective Cloth Special Equipmen	OPERTIES: TLV-TWA (ACGIH)10pCeiling Limits Indicate duration ofDermalDermal 6:10-1ppm Other:_ AMutagenN/A sure - (circle all the Eve(ocular) Dermal A NDATIONS: (personal p ppm use APR w/chemica ing: Excel-viton; Poor t: Prevent repeated/p d SPILLS: (Use numbere explanation Fire 1,2,8	PEL none est. study) 1Reproductive at apply): In bsorption Ot rotective meal cartridge; -butyl, vinyl, rolonged expod codes; see a	(OSHA) 10ppm IDLH 500ppm Oral Ldlo 100mg/kg Oral Ld50 1780mg/kg e Toxin N/A halation Ingestion her sures) >500ppm-SCBA neoprene, nitrile. sures. ttached sheets for
Decomposition Pr			B
IHL: Move to fr Eye/Skin: Irrigathor thor SYMPTOMS: acute(immediate) irritation, heada bladder, irritati	attent.immed., give weesh air, CPR if necess te/rinse with water foughly with soap & water water exposure effects: Sk che, confusion, abdominon. Hemolytic effects d in individuals w/hemolytics.	ary, medical or at least 1 ter in sensitizer al pain, nause (destruction	attent.immed. 5 min.Wash skin & blood agent. Eye a, vomiting, diarrhea, of red blood cells)

chronic(long term) exposure effects: Repeated exposure may cause dermatitis,

kidney and/or liver damage. Repeated exposure may lead to cataracts.

reproductive effects: None

Ecology and Environment, Inc. Hazard Evaluation of Chemicals Region V - Chicago

Chemical Name Xylene (mixed isomers) Date

DOI Glassification Job Number
CAS Number 1330-20-7
REFERENCES CONSULTED (circle; also include MSDS if approprate.) NIOSH/OSHA Pocket Guide Merck Index (Hazardline) Chris(vol.III) ACGIH TLV Booklet Toxic & Hazardous Safety Manual (SAX) (Aldrich) RTECS other: Sittig
CHEMICAL PROPERTIES: (Synonyms: dimethyl benzene, aromatic hydrocarbons) Chemical Formula C6 H4 (CH3)2 MW 106 Ionization Potential 8.56/8.44ev Physical State liquid Boiling Point 292/282°F Feezing Point -12°F Flash Point 81-90°F Flammable Limits 1-7% Vapor Pressure 7-9mm Specific Gravity/Density .864 Odor/Odor Threshold .05ppm Solubility-water: Insoluble Solubility-other: Miscible-ether, ethanol Incompatabilities & Reactivity: strong oxidizers
TOXICOLOGICAL PROPERTIES: Exposure Limits: TLV-TWA (ACGIH) 100ppm PEL (OSHA) 100ppm STEL 150ppm Ceiling Limits none est. IDLH 10,000ppm Toxicity Data: (Indicate duration of study) Human; IHL Tclo 200ppm Dermal Oral Rat/Mouse; IHL Dermal Oral Aquatic: 96hr: 22ppm Other: Carcinogen neg-anim Mutagen exper Reproductive Toxin exp. teratogen Route(s) of exposure - (circle all that apply): Inhalation Ingestion Dermal Contact Eve(ocular) Dermal Absorption Other
HANDLING RECOMMENDATIONS: (personal protective measures) Respirators: 1000 ppm APR, 5000 ppm - SCBA Protective Clothing: Good-nitrile, viton; poor-butyl rubber, neoprene. Special Equipment: Safety goggles, protective clothing for prolonged exposures. DISPOSAL, FIRE and SPILLS: (Use numbered codes; see attached sheets for explanation.) Disposal D Fire 6.7 Leaks&Spills 3.4.5.6.9 Decomposition Products: CO, CO2
FIRST AID: ING:Do not induce vomiting, contact physician; immediately. IHL: Move to fresh air, artificial resp. if necessary. Eye/Skin: Irrigate/rinse with water for at least 15 min. Wash skin throughly with soap and water. SYMPTOMS: acute(immediate) exposure effects: Vapors cause dizziness, headache, coughing
pulmonary distress & edema. Nausea, vomiting, abdominal cramps also seen with

chronic(long term) exposure effects: Possible liver and/or kidney damage,

pulmonary congestion. Ingestion may be fatal.

over-exposure.

reproductive effects: None

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ERRICISE

Region V - Chicago

Chemical Name TRIFLURALIN (TREFLAN)	Date Feb / 87
DOT Classification 1609	Job Number F05-87-02-169
CAS Number 1582-09-8	
REFERENCES CONSULTED (circle; also inc NIOSH/OSHA Pocket Guide Merck Index ACGIH TLV Booklet Toxic & Hazardous S RTECS other: Farm Chemicals Handbook a,a,q-TRIFF	Hazardline Chris(vol.III) afety Manual SAX Aldrich
CHEMICAL PROPERTIES: (Synonyms: 2.6 DENTRO-M. Chemical Formula Charles In No. 104 MW 335 Physical State Solid Boiling P Flash Point >125°F O.C. Flammable Limit Specific Gravity/Density 1.294 at 25°C Od Solubility-water: < 1 ppm at 27°C Solu Incompatabilities & Reactivity: No. 100 cacc	-3 Ionization Potential oint N/A x Preezing Point 108° F/42° c s N/A Vapor Pressure or/Odor Threshold bility-other: readily in organic solvents
TOXICOLOGICAL PROPERTIES: Exposure Limits: TLV-TWA (ACGIH) not ava STEL Ceiling Limits Toxicity Data: (Indicate duration of s	IDLH not quallable
Human; IHL Dermal Dermal Aquatic: Other: Carcinogen Posture Mutagen Experimental Route(s) of exposure - (circle all that Dermal Contact) Eye(ocular) Dermal Ab	Reproductive Toxin Free Market t apply): (Inhalation) (Ingestion)
HANDLING RECOMMENDATIONS: (personal processive Clothing: neopreve glaves; rubber Special Equipment:	
DISPOSAL FIRE and SPILLS: (Use numbered explanation.	
Disposal Fire H20, chems, foam, Co.	Leaks&Spills
Decomposition Products: hydrogen fluo	mou gas (Toxic)
ING: if conscious - drink water or milk, induce vanit IHL: more victim to fresh air; if breathing is a Ryo/Skin: flush with plenty of water	ing; if unconscious, do nothing but keep vieting difficult, give oxygen warn
SYMPTOMS: acute (immediate) exposure effects: During the nanufacture	st may irritate eyes. No toxic symptoms and use of this compound.
chronic(long term) exposure effects: d	•
reproductive effects: data not available	la .

8.1 Personal Prot 8.2 Symptoms Fe 8.3 Symptoms Fe 9.3 Treatment of 1 physician II 8.4 Tresehold Lin 8.5 Short Tem II 8.5 Short Tem II 8.6 Toxicity by in 8.7 Late Toxicity: Vapor (Gas) in 8.8 Liquid or Solid 8.10 Odor Thresho 8.11 IDLH Value: D	3. CHEMI s.1 CG Compatibili s.2 Formula: Cut-li s.3 IMO/UN Deelgr s.4 DOT ID No.: 16 s.5 CAS Registry I	RESPONSE TO (Bee Response Metho lesses warning-poleo contaminant Restrict access Should be removed Chemical and physis	Water	Exposure	Fire	Common Bynoryms alpha, alpha, trihuro-2, editino, N. N. dipropyi- reflan 2. 6-Dintro-N. N. dipropyi-4. 4-North CONTACT W Wear goggles and du Call fire department, lapdite and remove de Northy local health an
5. MEALTH HAZARDS sective Equipment: Protective gloves; poggles developed Exposurer: Dust may irritate eyes. No tanutacture and use of this compound. Exposure: INHALATION: move to fresh air. Exposure: INHALATION: move to fresh air. It value: Data not available the value: Data not available assets on Limits. Data not available gestion: Grade 3; oral LDvs = 500 mg/kg (rigestion: Grade 3; oral LDvs = 500 mg/kg (3. CHEMICAL DESIGNATIONS CG Competibility Claser Not listed Formula: CiaHiaFANJO, 1800/UN Designation: 6.1/1609 DOT ID No.: 1609 CAS Registry No.: 1582-09-8	RESPONSE TO DISCHARGE 2.1 spense Methods Handbook) 2.2 warning-poison, water contaminant incl access dd be removed dd be removed incal and physical treatment	HARMFUL TO ACUATIC LIFE IN VERY LOW CONCENTRATIONS May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.	CALL FOR MEDICAL AID. DUST POSSONOUS IF INHALED. More victim to fresh air. If in eyes, hold eyelios open and flush with plenty of water. If breathing is difficult, give oxygen. SOLID POSSONOUS IF SWALLOWED. Initiating to skin and eyes. Remove contaminated dothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelists open and flush with plenty of water. IF SWALLOWED and victim is CONSCIQUIS, have victim drink water or milk and have victim induce voniting. F SWALLOWED and victim is UNICONSCIQUIS OR HAVING CONVULSIONS, do nothing except keep victim warm.	Combustible POISCANDUS GASES ARE PRODUCED IN FIRE. West poggles and self-contained breathing apparatus. Extinguish with water, dry chemicals, fourn, or carbon dioxide	Solid Sinks in water. Sinks in water. Sinks in water. Sinks in water. Sinks in water. Sinks in water.
5. HEALTH HAZARDS 1.1 Personal Protective Equipment: Protective gloves; poggles; dust mask 2.2 Symptoms Following Exposure: Dust may intate eyes. No tool: symptoms have been observed during the manufacture and use of this compound. 2.3 Treatment of Exposure: IRHALATION: move to fresh air. EYES: wash with running water, call physician in finistion persists. SKIN: wash with soap and running water, INGESTION: induce vomiting; call physician. 2.4 Threshold: Limit Value: Data not available 3.5 Short Term Inhalston Limits: Data not available 3.6 Short Term Inhalston Limits: Data not available 4.7 Late Toxicity: Data not available 3.7 Late Toxicity: Data not available 4.8 Vapor (Gas) Infrant Characteristics: Data not available 5.1 Dodor Threshold: Data not available 5.1 DLH Value: Data not available	OBSERVABLE CHARACTERISTICS Physical State (as shapped): Solid Color: Yellow-orange Odor: Data not available	2. LABEL Category: None Class: Not pertinent	PHAMES MAKES BISSEL BISSEL	sh with plerity of water. shoes, with plerity of water. SCIOUS, have wictim drink water. VONSICIOUS OR HAVING CON- keep victim warm.	DED IN FIRE. setting apparatus , burn, or carbon dioxide.	PEOPLE AWAY

MOTES	9. SHIPPING INFORMATION 1. Grades of Purity: Technical: 95%. Emulsifiable concentrate in flammable solvents. 2. Storage Temperature: Ambient 3. Inert Amosphere: No requirement 4. Venting: Pressure-vacuum	WATER POLLUTION Aquatic Toxicity: 11µg/1/48 hr/rainbow trout/TL_/fresh water 0.59 ppm/48 hr/bluegill/LCss/fresh water 0.59 ppm/49 hr/bluegill/LCss/fresh water Weterfowt Toxicity: Data not available Weterfowt Toxicity: Data not available Deta not available Food Chain Concentration Potential: Data not available	CHEMICAL REACTIVITY Reactivity With Water: No reaction Reactivity with Common Materials: No reaction Stability During Transport: Stable Stability During Transport: Stable Meutralizing Agents for Acids and Caustics: Not perinent Polymerization: Not perinent Inhibitor of Polymerization: Not perinent	N - 0	Fire HAZARDS Flash Point: >185'F O.C. Flammable Limits in Air. Not pertinent Fire Extinguishing Agents: Water, foam, dry chamical, carbon dooxide Fire Estimation Agents that in his
TS	12.26 Heat of Pulymentamon: rot present 12.26 Heat of Pasion: Data not available 12.27 Reid Vapor Pressure: Data not available 12.27 Reid Vapor Pressure: Data not available		13 BEVERAL BEAUTIFE CONTRACTOR OF THE PROPERTY	11. HAZARD CLASSIFICATIONS 11.1 Code of Federal Regulations; Not listed 11.2 MAS Hazard Ratting for Bulk Water Transportation: Not listed 11.3 NFPA Hazard Classification: Not listed	10. HAZARD ASSESSMENT CODE (See Hazard Assessment Handbook)

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SITE DOSIMETER LOG

TDD#_	Fos	-8702-	169	S					
SITE SAFETY OFFICER					WEEK OF				
NAME DOS	AND	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY	
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To the nearest half-hour, record time spent downrange as "S" (e.g., S: 2.5 hrs), time spent in active PDS operation as "P", and any time spent downrange in rescue activity as "R".

ECOLOGY & ENVIRONMENT, INC. REGION V EQUIPMENT LIST

Team Leader: Phil Smith		
TDD Number: F05-8702-169		
ate of D		
ate of E	expected Return: same day	
. <u>Safet</u>	/ Instruments	(Please Circle)
١	Drager Pump	ABCDEF
1	MSA 2A Explosimeter	ABCDEFG
·	MSA 260 Combustible Gas/02 Alarm	A
1	HNU 101	ABCDEF
	Lamp Type: (10.2) or 11.7	
	MSA 245 Oxygen Indicator	ABCDEF
	Organic Vapor Analyses (OVA)	ABC
	Radiation - Mini	ABCDEFG
	Radiation - Survey Meter	ABC
	Rad - Tad	AB.
	Radiation - Thyac III/Probe	ABC
	Dust Monitor - MDA System	A
		_
. <u>First</u>	Monitox Hydrogen Cyanide Detector Aid Equipment	A .
• First	,	A1 2 3 4 5 6 7 8
	Aid Equipment	-
	Aid Equipment First Aid Kit	-
	Aid Equipment First Aid Kit Eyewash Bottle	12345678
	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator	12345678
1	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor	1 2 3 4 5 6 7 8
1	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges	1 2 3 4 5 6 7 8
1	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses	1 2 3 4 5 6 7 8
1	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests	1 2 3 4 5 6 7 8
1	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats	1 2 3 4 5 6 7 8
\ \rangle \ran	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats Face Shields	1 2 3 4 5 6 7 8
\ \rangle \ran	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats Face Shields Ear Plugs	1 2 3 4 5 6 7 8
\ \rangle \ran	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats Face Shields Ear Plugs ratory Equipment	1 2 3 4 5 6 7 8 A B C
\ \rangle \ran	First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats Face Shields Ear Plugs ratory Equipment Ultratwin Respirator	1 2 3 4 5 6 7 8 A B C Oty:
\ \rangle \ran	Aid Equipment First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats Face Shields Ear Plugs ratory Equipment Ultratwin Respirator Racal Air-powered Respirator	1 2 3 4 5 6 7 8 A B C Qty:
\ \rangle \ran	First Aid Kit Eyewash Bottle Oxygen Inhalator Blood Pressure Monitor Radiation TLD Badges Safety Glasses Lifevests Hard Hats Face Shields Ear Plugs ratory Equipment Ultratwin Respirator Racal Air-powered Respirator MSA Air-powered Respirator	1 2 3 4 5 6 7 8 A B C Qty: Qty: Qty:

P.D. Moss (Rev. 4/85)

Ç-H Qty:	
Qty:	
PA Qty:	
ner Qty:	,
40.	
Misc. Instrumentation	•
Airdrive Pump (Geofilter)	A .
Canon AEL Camera	ABC
Conductivity Meter	ABCD
Level/Tripod and Rod	ABC
Masterflex Pump and Filter	A B
Metal Detector	ABC
pH Meter	ABCD
Polarid One-step Camera	ABCD
Resistivity Meter	A
Robair Pump System	A
Water-level Indicator	ABC
Magnetometer	A B
Air Sampling Pump Kits	ABCDE
Buck Calibrator	Α
HNU 301 System	A
Thermal Desorber	A B
Meteorological (Weather) Station	A
Binoculars	
Vehicles	
Step Van	ABC -
Cargo Van	A
Suburban	A B
Protective Clothing	· · · · · · · · · · · · · · · · · · ·
Outerware	
Splash Aprons Qty: Butyl A	cid Suits Qty:
	ather Suits Qty:
Tyvek Oty: 6 Other	Qty:
	ncapsulated Otv:

2) Gloves				
Latex Disposable Qty: Butyl Rubber Qty: Nitrile Qty: Neoprene Qty:	3 pr	Viton Winter I Other	Orilling	Qty: Qty: Qty:
3) Boots Neoprene Qty: Latex Disposable Qty:	305			
80 oz. 40 ml.	Qty:			
Metal cans, clips, and lids Bailers	Oty:Oty:	· ·		·
I. <u>Preservatives</u> NaOH HN3 H ₂ SO ₄ Other J. <u>Drager Tubes</u>	·,	·		
Aydrogen Cyanide Surruric Acto Natural Gas (Methane) Arsenic Trioxide Ammonia Vinyl-chloride Other	Qty: Qty: Qty: Qty: Qty: Qty: Qty:			

K. <u>Decon Supplies</u>

Wash Jubs	<u>Qt y</u> :	
Buckets	Qty:	2.
Scrub Brushes	Qty:	2
Pressurized Sprayer	Qty:	·
Trash Bags	Qty:	
Tanps	Qty:	
Duct Tape	Qty:	
Solvent	Type:	
Detergent	Type:	alconox
MSA Sanitizing		
Solution >	Qty:	Loack

P.D. Moss (Rev. 4/85)

PM:4X

ECOLOGY AND ENVIRONMENT, INC. FIELD INVESTIGATION TEAM ON-SITE SAFETY MEETING

Project			
Date	Time	Job No	
	·	•	
			
	SAFETY TOPICS		
		•	
	S		
	•		~~~~
Special Equipment			
Other			

ECOLOGY AND ENVIRONMENT, INC. FIELD INVESTIGATION TEAM ON-SITE SAFETY MEETING

Name (Printed)	NDEES Signature
	·
Meeting Conducted By:	
Site Safety Officer:	
Team Leader:	

ON-SITE SAFETY LOG

ECOLOGY AND ENVIRONMENT, INC. CHICAGO

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	·	
rport	PROJECT NUMBER:	F05-8702-169
	·	
ECTIVE CLOTHI	NG	
	SIGNATURE	
		ECTIVE CLOTHING

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